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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Richard S. Dondero, et al.

Application No.: 10/684,774

Filing Date: October 14, 2003

For: INTERLEUKIN-1 MUTEINS USEFUL AS VACCINE

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: *November 19, 2003*

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

TYPED NAME: Elizabeth A. McLoud

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date

of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with the first or second After Final Submission, therefore:
 - Certification in Accordance with § 1.97(e) is attached; or
 - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:
 - Certification in Accordance with § 1.97(e) is attached; or
 - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).
- Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

- Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).

EXCEPT THAT:

- In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
 - Copies of references 1-37 listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. 09/729,509, filed December 14, 2000.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

The relevance of those listed references which are not in the English language is as follows:

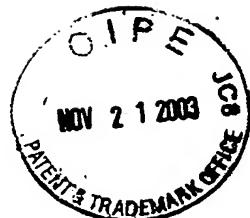
There are no listed references which are not in the English language.

Date: *November 19, 2003*

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. CELL-0276/PA562.div	Application No. 10/684,774
		Applicant Richard S. Dondero, et al.	
		Filing Date October 14, 2003	Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Boraschi and Tagliabue, "Interleukin-1 and Interleukin-1 Fragments as Vaccine Adjuvants", <i>Methods</i> , 1999 , <i>19</i> , 108-113	
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	3	Clore, G.M., "High-resolution three-dimensional structure of interleukin 1 β in solution by three- and four-dimensional nuclear magnetic resonance spectroscopy," <i>Biochemistry</i> , 1991 , <i>30</i> (9), 2315-2323	
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	16	Lin, et al., "Present status of the use of cytokines as adjuvants with vaccines to protect against infectious diseases," <i>Clinical Infectious Diseases</i> , December 1995 , 21, 1439-1449	
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	25	Seckinger, P., et al., "A urine inhibitor of interleukin 1 activity affects both interleukin 1 α and 1 β but not tumor necrosis factor α ," <i>J. Immunol.</i> , September 1, 1987 , 139(5)	
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31	Young, P., et al., "A site-specific mutant of IL-1 β with reduced activity but wild-type binding," <i>Lymphokine Res.</i> , 1990, 9, 599 (Abstract No. 3.55)		
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
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	33	5,286,847	02/15/94	Gehrke et al.	530	351
	34	5,334,379	08/02/94	Pillai, et al.		
	35	5,503,841	04/02/96	Doyle, et al.		
	36	5,847,098	12/08/98	Nakai et al.	536	23.5

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Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	37	WO 91/01143	07/16/90	PCT		

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